#### **DuPont Data** Theft Shows Insider Risks

Scientist downloaded thousands of documents without being detected

Gary Min worked as a scientist at DuPont for 10 years, focusine on research involving a type of high-performance film. He also covertly used DuPont's computer systems to steal trade secrets valued at more than \$400 million

shortly before joining

Min's case the de-

a rival company.

downloading or ac

unscaled last week by the U.S. attorney's office in Delaware is the latest - and perhaps most extreme - example of

the dangers posed to corpo rate data by rogue insiders. According to the court records Min pleaded guilty in Nowember to stesline poprietary data from DuPont by illegally

#### tails of which were DuPont Data, page 16 Customers Courted With Web 2.0

Social networking inspires marketers

Portland Trail Blazers fans quickly took advantage of the professional basketball team's brand-new social networking Web site last week to lobby for power forward Zach Randolph to he selected to play in yesterday's NBA All-Star game. The Trail Blazers hope the

site, which signed up 2,500 registered users in the first three business days after its Feb. 9 launch, can also help management better communicate with the team's fans - and sell more tickets, said Art Sasse, the team's vice pres ident of communications. The

Social Nets, page 36

89234945/CB/78 CH289798 11214 DO DOW 1746

blollabadillaadlaadlalalalalalalal



### ventin

Alignment isn't good enough anymore. IT leaders are becoming full-fledged

business strategists. Read how  $\Pi$ departments, IT budgeting and even the IT career ladder are being reconceived to meet new demands.





#### \_INFRASTRUCTURE LOG

\_DAY 25: Our ad hoc security solutions are out af control. They're too difficult to manage. He're leaving ourselves vulnerable and exposed.

\_Gil's had a security epiphony: high-powered lasers. They're everywhere. I keep zapping myself as I type.

DAY 26: I've taken back control with the IBM System 2"
mainframe. It helps us centralize our security management.
Identity and access controls help protect our information from
internal and external threats. And the System 2's multilevel
security features—along with its integrated handware
encryption—give us the highest levels of protection for our
data and transactions.

"That's great. But it won't bring back my left sideburn.



IBM.COM/TAKEBACKCONTROL/7

#### **NEWS**

6 Flu pandomic plans that depend on telecommutine may fall apart as millions of people choke the Internet in search of news

6 The DHS drops a plan to use as they leave the U.S. because the technology performed poorly during a 15-month test.

8 Q&A: PayPal ease Michael Barrett says phishing attacks are the ton security issue facing the online payment service.

Or workers need to make develspeakers and other attendees at the Share user group conference.

12 Web 2.0 apps are being used by many of the 2008 presidential campaigns, as candidates try to control their messages.

14 Federal e-discovery rules that ing some users to install e-mail archiving software or other tools.

14 Q&A: Bon Fathi, who heads Windows development at Microsoft, says that "less than a handful\* of bues have been found in Windows Vista thus for

lobal Dispatches: A U.K. 16 Blobal Disparents: A Con.

agency fines a bank for losing a lanton that held customer data: and the Chinese government arrests eight people for allegedly releasing a commuter virus.

The 2007 Mobile CPU Road Map

ach Out in Vista

Preston Goda details hos to set up, connect to, manage and configure eles in this record from his new book. es Wista in a Nutstral

#### OPINIONS

20 Mark Hall CIOs to add environmen. to their TCO calculations

20 Thornton A. May reflects appropriateness and what it means in the context of IT.

30 Frankly Speaking: 30 Frank Haves explains



within the ISO - and why everyone else in IT has a real stake in the outcome.



Now It's Your Turn RK BAST: If you enjoy Shark Tank, you won't want to miss Shark Balt, a place where you can really yent about IT. Submit your own bats' for points, and rate other bats, Leave comments, build your profile, or try to become

one of the "big fish Name and

#### KNOWLEDGE CENTER



23 Alignment isn't good enough anymore. Read how IT leaders are becoming full-fledged

business strategists. 24 Reimagining the IT Departpletely transforming their IT organizations, and everything is up for radical change. Also, learn bow

to spread the word about IT's new structures and expanded roles. 26 Ruthinking IT Budgets. IT finance is moving from a

each and CIOs are joining the debate about spending priorities. Plus. five budgeting huzzwords you should know.

30 Revitalizing Staff Skills. A foand a shift to a services economy mean IT careers are changing. And from smart money management to

inside out knowledge of the business, here are five old-school skills for the New Age CIO. 32 Opinion: Booleans in Boolean cases should IT be run like a husiness, argues columnist Mark Hall.

Those who think otherwise, he says, take-what-you-can-out budgetting are unrealistic ideologues.



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mer told analysts last we that their sales forecasts for the mnany's new Vista noerating

system may be "overly agpressive." In a conference call nor said lower selling prices limited new corporate sales and ware niracy may temper Vista sales He didn't provide specific sales projections for the fiscal year ending July 1.

#### FTC Files Pretexting Complaint in Florida The Federal Trade Com

has asked a federal court to force two Florida companies includion one linked to Hewlett-Packard Co.'s illegal efforts to plus leaks from board members. to reporters a to stop telepho pretextine and to pay back victims of the practice. The com plaint charged Action Research roun inc. which was linked to the HP scandal, and Eye in the lications Inc. with pretexting, or lying to gain access to nersonal telephone records.

#### Microsoft Discloses New Word Flaw

One day after its monthly patch release, Microsoft acknow that an unpatched bug in its Word application is being used by hackers to commandeer ters. The bulletin includ patches for 20 vulnerabilities, including six for Word. The comnamy said the unnatched flaw in Word 2000 and 2002 could allow an attacker to execu arbitrary code. Microsoft did not

#### disclose a patch delivery date. **Dell Taps Solectron CEO for New Post**

Dell Inc. has bired Michael Cannon, president and CEO of electronics maker Solectron Corp., to head a new group that will oversee much of the company's operations. The appoin comes about two weeks after Keyin Rollins stepped down as CEO and was replaced by four er and Chairman Michael Dell.

## Web Use Spike in Pandemic May Make Telework Tough May Make Telework Tough

Expected surge in online traffic could lead to usage restrictions, planners say

TANY COMPANIES and government authories are counting on humans of telemorkers to been their operations running in the event of an influenza nan-Aspecie Best those of our men anickly fall apart as ptillions of

people turn to the Internet for news and entertainment, potenrially choking online traffic Such a surge in usage would almost certainly prompt moves to restrict or prioritize traffic. such as blocking video transmissions, according to business. continuity planners who at-

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Companies with an evi on the bottom line may ball

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Pandemic

Preparations

#### ton, Va., said that increased numbers of teleworkers may **DHS Nixes RFID for Border Program**

problems.

Points of Failure

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the program spokeswoman

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documents, which show an

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ded on select 1-94 immigration

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The Department of Honocland Security is abundoning plans to use radio frequency identification technology in a key port of its border security system ofter RFID tags failed to work as expected in a IS-month test

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The DHS tested the RFID technology in an effort to improve its U.S. Visitor and Immigration Status Indicator Technology (US-VISIT) program, which was created by Congress in lanuary 2004 to track foreign nationals within

The spokeswoman said the department had hoped that

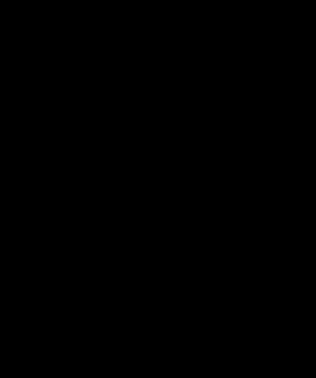
the REID technology could be and level status in the U.S. used to automate and speed up The RFID-tagged docuthe process of petting an accuments were to be scanned as the visitors passed through a border crossing, and their exit

rate record of foreign visitors as they leave the country. DHS Secretary Michael from the country was to be re-Chertoff disclosed the failure corded in a DHS database of the technology on Feb. 9 in The GAO report found that testimony to the Homeland during a one-week period at a test site, only 14% of 166 RFID Security Committee of the U.S. House of Representatives. He cited a Government Account-

taes that crossed the border were read by acanaers. The DHS had set a goal for the test ability Office report released on tan 31 that found the REID of reading 70% of tagged docutest to be a failure as a result ments crossing the horder. of performance and reliability Red McDonald ClO of U.S. Customs and Border Protect tion, said he hopes RFID technology can still be used

in some part of the US-VISIT "Unfortunately, the pilot was Canadian and Mexican borders,

unsuccessful at reaching a reasonable read rate," he said. We're still interested in RFID, but we have to look for some alternative."



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"Unfortunately, the pilot was unsuccessful at reaching a reasonable read rate." he said. We're still interested in RFID. but we have to look for some alternative "



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## PayPal Makes Drying Up Phishing Holes a Priority

Security exec details steps payment company is taking to stop e-mail scams

With 133 million users of its online payment sersice worldwide PayPal is arguably one of the most recognizable Internet brands - and one of

the most frequent targets of phishing attacks as well Michael Barrett, chief information recority officer at the effay fac. unit. spoke with Computerworld

last week about the phishing problem and PayPal's multipronged strategy for handling it.

Excerpts follow: Why do you think PayPal is

targeted so much by attackers? Actually there see two reasons. One is we have a very large customer have by the standards of most companies - 133 million customers on a elobal basis. We also have a buriness model that makes it easy by design to move money around between those 133 million individuals. By deficition,

that's poing to make both us and our customers targets.

What's your biggest security challange right new? The most stentificant issue is phishing. Phishing definitely is some thing we hear [about] loud and clear from our custom ees. They want us to take that away, and we're working very actively on addressing that. We don't helieve it's a problem that there is a single silver bullet for We alto think it's an industry problem. In fact, quite a lot of what we're trying to do is link the industry in coming up with a solution.

So, what are you doing to fight the chickers? Basically, what we're doing is taking a broadbrush strategy. Sometimes people say - and I doo't subscribe to this belief - that

spam is so uncontrollable problem. If you mean can you catch every bit of snam and phish mail that is nephabby wery difficult to achieve. But can you deal with it such that you see very little spam and very little phish mail? I would submit

(that) technically, we already know how to do that I just think that by and large, we haven't put the controls in front of the consumers We falso) are working with

What part of controls do you

there was a lot of discussion in the industry about digitally signing e-mails on their way out of corporations like ours. And then there was a standards war and essentially all the

momentum not lost, We've decided that it's time again for comebody to take a leadership position. We are, in fact, completely amostic shout what drives standards. As it stands there are two perfectly functional once SPE and Domain Keys. We're ready 100% to start signing all outhound e-mail from [eBay and PayPal] using both SPF and DomainKeys.

them permission (to deletel a

developed a better sense of

the concurre that the Linux

opponents had. And Vincent

this is the right path to take."

gained is an example of what

Share speaker George D'Iorio

called "noft skills" - a term be

needed for rosks such as devel-

used to describe the abilities

oping effective relationships

with co-workers and vendors

prise server team at a large

retailer that he asked not be

D'Iorio manages the enter-

and runolog meetings.

said that with "kinder words,"

the major ISPs and giving

piece of e-mail that claims to originate from us but is not leeirimately signed by us. I think that by the end of this year, we secondly will have done that with several ISPs. The other thiog we're doing is finding ways of working with the e-mail client yearlors to make it much clearer when e-mail has been legitimately signed or not.

What about the strong author tication initiative PayPal arnounced last year? It's just now

running out in a public beta in the U.S. Australia and Gen. many. We want to see what our customers think about is. We're giving the (security) tokens away for free to our [business accounts]. We're charging a nominal \$5 fee for the others. We aren't making any money on it, but we do need to cover our shipping and handline costs. We also believe it's important to show that these tokens have a value. Besides the tokens, what are some of the other security mea sures that you're using to try to millionte seilles fraud? We already do quite a bit of frund modeling, some of which is

behavioral and some of which is IP-based. We generally don't talk a lot about the details simply because it's proprietary and the more we talk about it. the more information we give to our adversaries.

Suffice it to say that we already have extensive security controls. Our fraud rate is fourtenths of 1%. If you po look up average numbers in the credit card industry, [they're] a whole lot higher than that.

The last thing we do is work very closely with law enforcement on a global basis. While we have a great deal of grudeing respect for the intelligence and determination of our adversaries, we ultimately want to see them in handcuffs and orange jumpsuits.

IT expertise shouldn't eclipse people skills, conference attendees say

BY PATRICK THIBODEAU TAMPA, FLORIDA

Reneated efforts at Nation wide Mutual Insurance Co. to try Linux on the majoframe faced internal conosition. some of it from IT employees worried that a mainframehased server consolidation would be a threat to their jobs. They \*fought tooth and nail to keep it from happening," said James Vincent, a mainframe systems engineering consultaot at Nationwide. But their resistance taught Vincent a lesson that he put

was finally approved in 2005 Part of Vincent's job involved working with the employees who had feared the project. includios IT staffers who worked on Unix systems. "At first blush, they feel you are taking away their jobs from them." Vincent said at last week's Share user group conference here. But as a result of the earlier battles, he

to use after the Limux project

Tech Pros Take 'Soft' Approach in Workplace identified. As he did at last week's conference. D'Iorio also cooducts training sessions, such as one called "Get-

ting Your Message Across." \*Effective communication is a necessary skill in any kind of leadership whether technical he beloed convince them "that leadership or people leadership," he said, "And I think The experience that Vincent sometimes the professional

skills (in IT) are so much focused on the technology that the other soft skills get overshadowed."

**Communication Matters** D'Iorio thinks that developing better interpersonal skills within an IT operation can help improve its productivity and efficiency. He said that one thing his employer does

to help sharpen such skills is hold "lunch and learns," where various IT workers give presentations about a particular aspect of their jobs or a project that they're involved in.

Effective communication is something Donald Woodruff. on IT consultant at utility company National Grid USA in Westboro, Mass., tries to

practice on the job. He said one technique be uses is to establish "checkpoints," which involves periodically making sure that the person he's explaining a technical concept to understands it before advanc-

ine the discussion. "One of the most difficult issues for technical people is communication," said Woodruff. "You need to be able to talk at all different levels. You aren't just talking in a peer relationship, engineer to eneineer. You have to be able to

explain yourself Nationwide beszo running Linux-based applications on the mainframe a year ago and currently has about 1.500 in place, Vincent said. That is beloing check the growth of the Columbus, Ohio-based insurer's installed base of 6,000plus servers, and it expects to save a total of about \$15 million over three years.

In addition, the Unix group has gotten more comfortable with the IT changes, accordthe point, be said, where

ing to Vincent. It has reached Nationwide's Unix and mainframe staffers "are now part of the Linux/Unix team." 1



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BETTER DECISIONS

#### Microsoft, Novell

#### **Extend Agreement**

Microsoft Corp. and Mount Inc. have announced plans to enable virtualization for each other's server operating systems as part of their oncoins effort to dows and Linux, Under the

dated plan, Microsoft Virtual may 2005 R2 Service Park 1 will let users host Novell'a SUSE Linux Enterprise Server 10 as a

#### Dell Laptop Said to Cause House Fire

A fire that destroyed a single-tamly home in Biddeford, Mai work has been blamed on a Dell laptco that was plugged in and left sitting on a living mem couch while recharging. A rep ative for Deli Inc. could not or reached for comment. The plop was reportedly not amp

neutera recalled last was for battery problems that could cause overheating and fires. **Sun Patches Critical** 

lug in Solaris 10 Sun Microsystems Inc. last w hed a critical bug that could et hackers snatch control of Solaria 10 sentenna by sanding mands in the Teinel on. The fix came just three days after exploit code for the zero-day vulnerability was post ed to a security Web site. "Bio round of applause for Son owning up to the mistake and fair it mickly," said Dave Marnor

#### viel technology officer at secu rity wander Errata Security, in a blog entry. **Oracle Updates** Times Ten Database

Oracle Corp. kas unveiled the first major revision of the sTen in-memory relation ase since it acquired the sology in June 2005. The w version, Release 7, offers ed integration and coo ing with the anterprise-level Oracle Database 10s, Pric Times Ten 7 starts at \$12,000

#### **C** ON THE MARK

HOT TECHNOLOGY TRENDS. NEW PRODUCT NEWS AND INOUSTRY BUZZ BY MARK HALL



**NFWS** 

#### Software Helps Save Trees . . .

... while saving your company some ornen. A timy startup in Portland, Ore., has a simple idea that could help your organization pocket a few extra greenbacks while conserving the planet's resources: Stop wasting printer paper, Hayden Hamilton, the founder of GreenPrint

Technologies LLC. says bis company's convinous 'virtual printer" previews print jobs and identifies the pages that the software deems wasteful. Of course. you choose whether it's waste or not And there is lots of waste

- URLs dangling from printed Web pages, endless legal folderol, the boilerplate on press releases and more All of which gets printed and tossed, wasting paper and money. Hamilton cites a study by Lexmark International Inc. that estimated that conporations waste an average of 1,400 sheets of paper per year. Another bit of research from Citizroup Inc. puts the cost

of each tossed sheet at 6 to 13 cents, depending on how your company counts paper, ink. toper, recycling and earhage costs. By his conservative calculation of 8,333 sheets per 40-foot tree (low, but not the lowest of many estimates). Hamilton concludes that use of GreenPrint by all U.S. ofhe tracked back to you and



of dollars annually GreenPrint is available on Windows XP, with a Vista version due at the end of this quarter and one for the Mac to follow The roftware includes a PDF writer and starts at \$35.

#### Dispose of your IT assets with ...

nal and budg care. If you work at one of the 30% of midsize-to-large comnanies that Gartner Inc. says don't have any IT assetdisposal programs, consider chatting with Chris Adam. the director of NextPhase a Peabody, Mass-based division of IT component distribution company Converge. NextPhase manages the disposal of your IT assets - and it might even give you a check in return. According to Adam, NextPhase will erase data to Level 3 Pentagon standards. "sanitize" the asset so it can't



harvest the components and recrucle what it can't sell. The revenue it generates from an asset determines whether and how much of a check NextPhase will send your way. The company's new NextPhase Asset Manager is an online service that lets you track each asset's status within its "chain of custody." says Adam.

#### Do you give . . .

... good meeting? With so many meetings becoming virtual these days, Genesys Conferencing Inc. in Vienna, Va., thought it would be helpful if attendees of Web-based meetiner ent a personality agreesment so they could perform better during online group encounters. So it teamed up with Michael Santo, a co-developer of the Rembrandt Portrait, a predictive personality profile

> powerment Concepts Inc. in Palm Springs, Calif., markets the tool to human resources departments. The result is the General Meeting Profile a 15-minute psychological survey to help determine things such as

tool. Santo's company, Em-

whether a person behaves more like an introvert or an extrovert. The profile. Santo says, can be "a virtual coach" and belt people understand how to act during online busi ness meetings. For example,

if you are a domination type, the profile can give you pointers on how to reak the views of others in an online session. where the usual interpersonal cues can be lacking. Genesys is conducting a test to see if there are differences in assessments of a meeting's effectiveness by people who have been profiled and people

#### who have not Results will be available by the end of OL Use Eclipse to merge old middleware . . .

... with new arms. Peter Marquez, vice president of marketing at eCube Systems LLC in Monteomery Texas observes \*Middleware is generally a good thing, but there are gaps and shortcomines in middle-



tions brittle That becomes porticularly true when you try to marry middleware laden programs with

water that can

make applica-

Between owners designed around a serviceoriented architecture, he says To do it right, you need a tool, he claims. Hence the planned early March debut of eCube's NXTware 2.0. Marquez argues that young developers are accustomed to graphically rich tools, such as wizards. that help them code. He save NXTware brings that modern programming environment to doddering middleware applications. An Eclipse plug-in. NXTware lets developers

manage the entire application development process from within the open-source framework. That includes CORBA, remote procedure call and other middleware code as well as modern techniques such as SOAP and enterprise service buses. Pricing starts at \$299 per seat.

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#### Presidential Campaigns Tread Carefully Into Web 2.0 World

Slips by John Edwards' bloggers show candidates' risk of offending voters

RESIDENTIAL candi dates have discovered that being on the Web means more than posting a few glitzy pictures. speech transcripts and an

"e-mail me" link. Hoping to tap into the popularity of Web 2.0 applications such as blogs and widely used social networking sites like MySpace and YouTube, several candidates are gravitating toward such technology to garner support and raise

At the same time, campaign officials acknowledged that such efforts are not without substantial risk for example pushing the limits of Web 2.0 technology such as opening blogs for quick, public postines, could lead to unwanted or libelous posts, analysts said. aimed at Democratic presiden-

tial hopeful John Edwards thus month was cited as a strong example of why campaigns must advance carefully. After two of his campaign's bloggers made comments that some thought were anti-Catholic Edwards first criticized the bloos but didn't fire the blogners. However, the criticism mounted and both women

resigned from the campaign last work One of those bloggers. Amanda Marcotte wrote in her blog that she resigned because "every time I counted. I felt like I was risking the Edwards campaign." The other

bloeger, Melissa McFwan, said she resigned because she had become a liability to the cam-Most campaigns are strugeling with "bow do you leverage Web 2.0 and true communities online while maintaining some control over

NFWS

your candidate," said Julie Barko Germany, deputy director of the Institute for Politics. Democracy & the Internet of George Washington Univer-

Thus, she said, most camcrafted messages themselves instead of allowing unfettered external comment. "The race to the White House in 2008 will be all about how condi-

dates talk to people online."

Edwards an-

nounced his second presidential run with a video on the YouTube site, and bis Web site includes links to personalized pages on the You

Tube, MySpace and Esosbook social networking rites - and even Flicks, a site for sharing and organizing photos. Sen. Hillary Clinton (D-

N.Y.) officially approunced the start of her presidential campaien on her Web site, which she said also plans to launch On Feb. 10. Sen. Barack

has better exploited IT in past However this year the Republican presidential candidates, including Sen, Sam

sity. "[Campaigns] want to be able to influence how people perceive their candidates." paiens will post carefully

Obama (Dall) formally sonounced his presidential run in a speech delivered in Springfield, Ill., but a day earlier, he had posted a video touting his new social networking plan on his campaign Web site. In that video, he arrest suna Washington-based liberal

a blog.

porters to use the site to organize fundraisers, create blous and "oreanize your friends. your wighbors and your notworks. We can collect small donations instead of having to rely on large campaign contributions." Obama said Obama's campaign office did not reply to a mousest for

David Kimball associate

professor of political science at the University of Missouri St Louis said candidates can use Web 2.0 tools to meet and contact likely supporters, raise money and attract volunteer ....

However, he noted that the protests prompted by the Edwards bloovers highlight that if you're not careful, you can end up being associated with unpopular views, since the Web is more of a venue of un-Channel diamentary

Both major parties have acknowledged that the Republican National Committee

elections to belo its candidates. sites launched by some of the Brownback (R-Kan.) and former Massachusetts Gov. Mitt Romney, so far lack substantial social networking features.

#### Advocacy Groups Call for E-voting Changes

A coalition of voting rights groups last week called on the U.S. Congress to pass legislation requiring that electronic voting machines have printers attached to ensure that election possible can be sudited

Speakers at last week's Fleetions Looking Forward forum, sponsored by Common Cause. the Leadership Conference on Civil Rights and other advo cacy groups, also sought solutions to other problems related to the failure of e-voting machines to meet expectations in recent elections.

Those speakers cited a lack of training for poll workers. and administrative mistakes

Sarasota was a disgrace. Fighteen thousand votes inexplicably disappeared into cyberspace. BALPH NEAS

as causes of e-voting problems. Efrain Escobedo, director of voter engagement at the Elected and Appointed Officials, said his group noticed that poll workers didn't know how to change the paper in machines or how to reboot

Several called on Congress to pass the Voter Confidence and Increased Accessibility Act, which would require paper-trail printouts with all touch-screen voting machines Ren. Rush Holt (D-N.I.) intraduced the bill earlier this month after a similar piece of legislation failed to pass during the previous congressional

session. The Holt bill has 183 co-sponsors - almost half of the membership in the House of Representatives. Congress needs to act in the next six to eight months for the legislation to affect the 2008 elections, said Ralph Neas, president and CEO of People for the American Way.

advocacy group. in calling for passage of the legislation. Neas pointed to the 2006 vote in Sarasota County, Fla., where e-voting

muchines did not record votes from more than 18,000 people in a congressional race decided by fewer than 400 votes. "Sarasota was a disorace." Neas said, "Eighteen thousand votes inexplicably disappeared into cyberspace. Christina Galindo-Walsh.

senior staff attorney for the National Disability Rights Network, argued against requiring a paper trail, contending that the printouts would create a two-tier voting system in which some disabled people wouldn't have access to the same information as other voters. Moreover, Galindo-Walsh

and Jim Dickson, vice president for government affairs at the American Association of People with Disabilities, maintained that it is already too late for Congress to mandate paper-trail ballots by the 2008 presidential election. E-voting machine vendors wouldn't be able to produce enough printers in time. Galindo-Walsh

The problems have forced many Americans to question the accuracy of e-voting systems, said Melanie Campbell executive director and CEO of the National Coalition on Black Civic Participation. The reality is voters are losing confidence in the system," Campbell said.

Gross is a reporter for the IDG News Service.

#### SHARP



If you don't take control of your data, someone else will.







IBM Servers Support Linux Consolidation IBM has urrealled three serve date Web-tier Linux

eers in their IT environ e high-end offering, the IBM System of 5600, includes adthat allow 320 x86-based Linux Web servers to be cornolidate on one rack carrying five of the new servers, IBM has updated its blade server technology for Linux server consolidation for

#### small and midsize businesses EBay Adds Tooks

**APIs for Developers** EBay Inc. plans to add more proing tooks for external deers in an effort to increase the volume and variety of apons created for eller uses shown libe II bias wasness as pers with new software ment kits and appli amming interfaces. The eBay Developers Program has about 45 000 members.

#### Open-Source Group **Eyes Interoperability** Ten small open-source comp

to cash for more interopera ons. The Open Solut nce plans to define tools vorks and best practices

to ease interoperability. It also hones to establish comm to work on specific projects, as well as facilitate joint marketi campaigns for open-source busi

#### dicrosoft Ship id-on for BI Took dicreselt Corp. has unvailed Dy

nics CRM Analytics Foun tion, which is designed to make it easier for users to customable source code and docu arge to users of Microsoft's et software. It isc

#### E-discovery Rules Send Message on Archiving

Users turn to software for storing and retrieving e-mails, instant messages

embrace of Linux and its highly reliable online banking site. KeyBank NA is among the most efficient cuttime-edge banks in the U.S. when it comes to IT - but that

wasn't the case in one area un-When Al Connolo was asked by lawyers at the KeyCorn operating unit to produce old e-mails for litigation or regulatory compliance, he would have as many as four members of his IT team trudge to an offsite storage facility to retrieve

tanes, mount them on servers and painstakingly search for the requested messages. "It was a completely manual environment," said Coppolo. executive vice president and director of infrastructure at

Cleveland-based KeyBank Sometimes we would have to look through copies of the same e-mail on multiple tapes if there were multiple replies." The process was so isborious and time-consuming that his team just bandy met a 30-day internal deadline for producing e-mails, And, Cop-

polo noted, the number of legal requests was only growing. Moreover, in December new federal e-discovery rules second loss offers that small our requirements for submitting electronic documents as evidence in civil court cases.

Automating the Process There are several sechnol-KeyBank opted for a full-

ogy alternatives available to companies looking for help. blown archiving and content management system from

fensive measure. It's a way of stopping people from attacking you. What we want to do now is move to a world where

we enable and simplify collaboration between different individuals by making sure that those connections are end to end. [and] that you can provide very finegrained control over the people, the applications and the resources that you give access to.

o, what are you doing to make that happen? There's a number of things we're working on For example, isolation, We-[currently] look at isolation in terms of petwork isolation

secure and that we can trest it. Are you surprised by the number of Wate bogs that have been rewhether it's IPsec or putting in

ed by Computerworld last fall. 32% of the 170 IT managers and staffers who responded said their companies weren't AXS-One Inc., installing the at all prepared to meet the new software late last year to surrequirements port a 300 TB e-mail probine Archiving systems such as The bank bought AXS-One's AXS-One are good for large namerske eaftware from Sun

componies with e-mail indexes that bulge out to "Google-like costly alternative, he noted, is to add search and netsimal software to existing e-mail servers A third route is to swap out

appear to be ready to comply

with the c-discovery rules. For example, in a survey conduct-

one of the first-tier mail servors for a less expensive produ uct with more built-in search and storage features. That's what the city of Marshalltown. lowa, did in December, when it moved from Novell Inc 's GroupWise to a Linux-based e-mail server from PostPurk Inc. William Lawrer Marshalltown's information perferns coordinator, said PostPath

The increased need for comstores e-mails so they can be easily managed and searched. electronic evidence is "a pretty "We don't have a monolithic database with all sorts of post Osterman, an analyst at Osteroffice files to deal with." be said "DostPuth just stores each And many companies don't mail as an individual file."

ago that I would like to see

half as many vulnerabilities as

Windows XP (had) to the first

#### finewalls or SSL VPNs. What we want to do is provide a better layer of isolation at the operating system level. We're looking at putting hypervisors underneath the operating sys-

Microsystems Inc. as part

of a compliance and content

AXS-One can manage both

e-mail and instant messages

and it captures a copy of each

ceived. To give users one-click

access to old messages, it cre-

ates message "stubs" in their

Coppolo said the tools are

working well enough that he

hopes to eventually train Key-

Bank's legal team to use AXS-

One to order to free up his IT

panies to be able to produce

serious issue," said Michael

mao Research Inc. in Black

Diamond, Wash.

staffers for other tasks

e-mail directories

message that is sent or re-

management product bundle.

year, Obviously, I'd like less than that - Di be baney with zero. But I think it's reasonable to say, given the additional complexity and the additional size of Vista, that half as many would be a great goal. Am I surprised with the number (so farl? No. I think it's been a relatively small number of vulnerabilities in the three

months we've been out And given the fact that we associationly most out to the Black Hat conference flast August) and handed out copies, and that a couple million people have been using Vista to test versions for the past year or so, that tells me there are already backers out there trying to attack it. So given that there are less than a handful of vulnerabilities discovered, I think

that's good progress.

#### Vista Avoiding Bugs, Microsoft Exec Claims

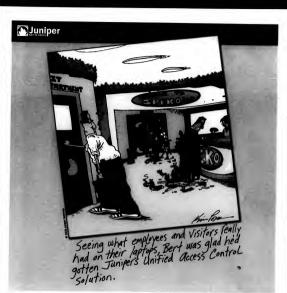
See Fathi is corporate vice president of development in Microsoft Corp.'s Windows

core operating system division. In on interview with IDG News Service at the RSA Conference 2007 here this month. Fothi discussed Microsoft's operating system security plans and the number of bugs being found in Windows Vista Excerpts follow:

What's going to be the big security story this year? What we've done in previous OS releases and in Vista and what our security partners are doing. has treated security as a detem and building a hardware root of trust on the machine. What that means is that today, if a rootkit makes it onto your machine, it can do

a hyperjacking. It can take court the OS or is can even see underneath the OS so that any software you're running won't know that it's being lied to by a piece of malware. What we want to do is put the hypervisor there and use things like the [Trusted Platform Module] chings make more that the entire boot path is protected and

ported since the issueh? I made a statement six or oine months



>> Employees and guests bringing in more than business? Protect your network – and give appropriate access – all with Juniper's Unified Access Control v2.0.

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#### Continued from page I DuPont Data

cessing thousands of documents stored in an electronic Ubaran Adia substales more than first name Yonggang, is scheduled to be sentenced March 29 and faces a maximum of 10 years in prison plus a fine of

up to \$250,000 What happened at DuPont vividly shows how trusted insiders can exploit IT weaknesses as well as the challenges that companies face in stopping people from misusing systems, said Mart Kesner chief technology officer at law firm Ferwick & West LLP in Mountain View Calif

#### User-by-User Security "The old security model

looked at the castle and ways to protect it with perimeter defenses," Kesner said, noting that it made "intuitive sense" to many IT and security manacers to implement firewalls. intrusion detection systems and other defenses aimed at preventing outsiders from breaking in. But that model is inadequate for dealing with insider threats. Kesner said.

"Frankly we all have to acrisely ston thinking of insider vs. outsider" and focus on improving access controls for all users, he said. "It means lookinv at each and every person and machine as an island and deciding what rights and access each person and machine needs or doesn't need."

According to the information released last week. Min downloaded about 22,000 document abstracts from DuPout's Electronic Data Library (EDL) server and accessed another 16,700 full-text PDF files. The various documents covered most of the company's major products and technologies, including some that were still in the research

and development state: The illegal activity occurred during a five-month period nest prior to Min's departure from DuPont in December 2005, the U.S. attorney's office said. When the dowoloading began that August, Min was in active job discussions with

Frankly, we all have to actively stop thinking of der vs. outsider

MATT KESMER, CTO FENWICK & WEST II B

Victory PLC a company based in Thornton Cleveleys, England that he signed on with in October 2005 but didn't join until the following lanuary. Although Min downloaded or accessed about 15 times more documents than the westheaviest user of the FDI did during the period in question his activities appear to have some unmoticed until after be

submitted his resignation. At that time an internal investigation uncovered his activities, and DuPont reported the downloads to the FBI and the U.S. Department of Commerce. Even so. Min was able to unload another 180 DuPont documents onto a Victrex-

supplied laptop a full month after he had left DuDows No details were disclosed

where Min was able to accord DuPont data after he had left

The U.S. attorney's office anid Duffrest contented Vice nev officials in the LLK and told them of the theft of the 180 documents, after which Victory seized the lanton it had given to Min and

handed the system over to the FRI A subsequent raid -Chile's home in Ohio on Ech 14, 2006, unnuters that contained confidential Duffore information Federal exerts also found remerous garbage bags that were falled with showlded DuPort technical documents.

plus evidence that documents had been burned in a fireplace As the azents enterned the house Min launched a software erosure program on one of the computers

on what prometed the internal in an attempt to destroy the peobe or about how or from contents of its band drive, the 11 S. setormen's office said A statement issued by Du

the LLS attorney's office and the other follows commission in volved in the investigation for their "scadership and professionalism" in dealine with the issue. It added that the data



Min accessed doesn't appear to have been disseminated. A DuPont spokesman declined to comment on the case beword the statement

"What happened at DuPont is not surprising at all," said Phil Nersy vice resident of produ uct management at Guardium Inc., a database security tools version in Waltham Mass Non-

av said the apparently unfettered access that Min had to the data on DuBoat's EDI sames is evidence of the lack of monitoring that's typical inside comorate networks. "The objective should be to give

insiders as much access as they need but no more." Nersy said. That involves the use of monitorius machanisms that detect unusual activity and send out alerts when it occurs such as when a near attempte to download large volumes of information he added.

#### **IBM Unveils First Major FileNet Release**

IBM last week uswelled FileNet PS 40 the first major new release of the enterprise content management software since IBM bought FileNet Corp. last Outshor for \$1.6 killion The new version of the software adds a IZEE-based content engine and content fed-

cration services for third-party repositories so that a company can carry out searches class sification, storage, updates and deletions of data stored io multivendor content stores, 19M caid

Such data federation is vital. since it's "impossible" for a major company to store all of its content in a single repository, said Steve Mills, senior vice president of IBM's software group, during a conference call last work

Some large organizations have as many as 20 different content stores, he noted.

The EileNet cofessors also allows users to capture, man age, access and join content from across their operations. IBM said The new version can also automate records management tasks, making it easier for companies to meet compliance requirements, ac-

cording to IBM. Document Managemen Franklin Alvanez manager

of computer applications and construction services at Consolidated Edison Company of New York Inc., a 35-year IBM customer and a 15-year user. of FileNet's software, said he expects to benefit from their consolidation. "We were very byteny to use the two come together," he said, "It gives us real synergies to leverage."

The utility company began deploying FileNet's P8 system in late 2004 to automate many manual content management

looking to ease the process of transferring data between

the company and povernment agencies Alvarez's unit is responsible for the excavation work required for laving new electric-

ity cables or gas pipelines in New York and for repairing existing systems there. Such tasks require constant communication with multiple city agencies to obtain work

permits. The utility is also keen to use the FileNet system to provide more content, such as youts of systems and compliance specifications, to its workers at excavation sites.

Con Edison uses the business process management piece of the FileNet software to capture knowledge from its aging workforce. Alvarez said. "Our company is cradle to grave," he said. "It's not un-

common for someone to work here for 30 to 40 years." During the teleconference. IBM also debuted a new Web 2.0 interface for its Content Manager OnDemand software. The interface will enable users to access content held in all of IBM's content

management offerings via a Web browser Mills wouldn't comment on whether the vendor plans to add to its stable of content management offerings via more acquisitions. He did note that he expects the company to continue acquiring companies at its current rate of about

a dozen per year. Mills said that IBM plans to bring out content management offerings targeting small and midsize customers at some point "We're already reaching ioto the middle and have some skinnied-down products," he said.

Martens is a reporter for the

IDG News Service.

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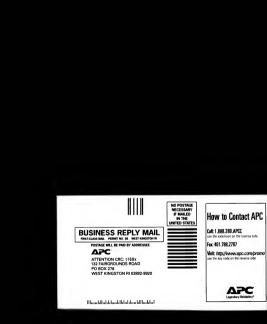
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#### An Internationa LL News Digest

#### U.K. Bank Fined For Loss of Laptop

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Eight Arrested in China For Alleged Virus Plot

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#### Korean Security Vendor Inks Mexican Deal

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#### Taiwan Firms Warned On Export Restrictions

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EC Seeks Input on Internet Buying Rules

Fig. 2. Compared to the compar

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- Fisher Mills Market

#### Briefly Noted

signed a four-year centract worth S44.2 milline Australian (S34.6 million U.S.) write CPS Systems, a provider of electronia beader management systems. The deal calls for the agency to continue using the Sydney, Nautralian-based company's Electronic Travel. Australian-based company's Electronic Travel. Australian-based company's Electronic Travel.

Processing systems. CPS has supplied security tools to the Australian government for II years.

SANDRA ROSSI

COMPUTERWORLD AUSTRALIA

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England -based tolocommunicaloses sendor, land week laad of can terminable its agreement to buy a majority stable in Mutchious Tolocous majority stable in Mutchious Tolocous STIL Hollow (U.S.) has "prohibitionthreatens the deal. The Vodationsstatement, reduced in a Philip with the Hong Kong stook-exchange. Comes award regress that Mumbais, India-based Essan Grosp, which halds a 33% state in Hong Kongplaced Ristorium Essan Liu. in unbased institution Essan Liu.

■ IDENTIFIERO IDENE WS SERVICE
has agreed to sell its 28 5% stake in CA Racional Telefones de Venezuela so Venezuela Soprerement for about SS72 mileo (U.S.). Verson is sellin to stake because of the country's effect to nationalize its industries and resources.

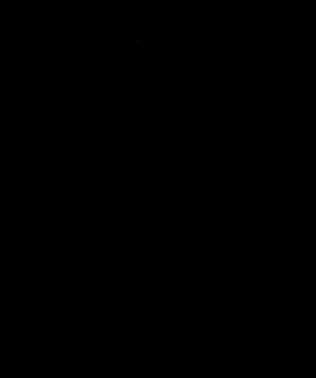
■ Report No. No. CO. No. Model Book Inc. 1

Hyderabad, India, announced that if is setting up its largest development facility outside of India, IN 92.500-seat tackity in China's Nastring Software Park will open within a year. In Rovember, Satyam announced plans to increase its staff in China from around 400 to obert 3.000 by 2008.

land week spined a global sales and marketing alliance with Satyam Computer Services, Under the agreement, Satyam will establish an Ingene practice socused on preventing systems integration services so generated customers, worldwide, largers, a provider of open-source database technology, opened

operations in India in October.

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#### GLOBAL

#### U.K. Bank Fined For Loss of Laptop

LONDON

# 18 U.K.'s financial services regulater last week fined a major British bank for its loss last summer of a laptop computer containing confidential customer information.

dential customer information.
The Financial Services Authority
fined Swindon, England-based Nationwide Building Society \$290,000
(\$1.9 million U.S.) for "failing to have
effective systems and controls to manage its information security risks," the
FSA said in a statement.

The laptop was stolen from an employee's home during a burglary in August, Nationwide said in a statement. The hank said that it believes the thief was after the laptop rather than the information stored on it.

formation stored on it.

The data was compiled for marketing purposes and did not contain any personal identification numbers, passwords or account balance information, the commany said.

the company said Nationwide, which has about II million customers, did not immediately realize that the stolen laptop contained customer information and waited three weeks before starting OLOBAL FACT

an investigation, according to the FSA. Nationwide said that it has informed its customers of the problem and that no knees have been reported. It also commissioned a review of

losses have been reported. It also commissioned a review of its information security, the FSA said.

### JEREMY KIRK
IDLANGES SERVICE

#### Eight Arrested in China For Alleged Virus Plot

UNIONE POLICE have arrested cight people in connection with the release of a computer virus known as Panda Burning Incense, according to an official state news report. The arrests are the first in China for

virus writing, according to the Beijingbased Kinhua News Agency. Li Jun, 25. from Wuhan in central China, was among those arrested, the official news agency reported. Li alleved to sold conies of the worm to An International IT News Digest

120 people, earning 100,000 renminhi (\$12,876 U.S.), the agency said, citing a statement from the Hubei Province Bubble Security Busers.

Public Security Bureau.

Antivirus specialist Sophos Pt C
in Abingdon, England, last month described Panda Burning Incense as a

in Abingdon, England, last month described Panda Burning Incense as a "parastic virus" that infects executable files on a PC. When an executable file is infected, its icon channes to an impur of a read-

holding three sticks of incense — a traditional way of praying in China. In a statement, Sophoe said the virus doesn't pose a risk of widespread infection because the altering of the iconsmakes the infection obvious.

#### Korean Security Vendor Inks Mexican Deal

SOUTH KOREAN antivirus software maker AhnLab Inc. has taken another step in its effort to expand its husiness beyond Asia by striking a deal with a hig Mexican bunk. Under the \$50,000 (U.S.) deal, \$000-based AbnLab will supply online antivirus, kerbeard security, anti-

apyware and online firewall applications to Banco Nacional de México SA. The Mexleo City-based bank, which was acquired by New York-based Citigroup Inc. in 2001, claims to have about 1,500 branches and 2 million zustomers.

In a statement, Ahn-Lah officials said the deal allows the bunk to establish a strategic base to expand its business into South American countries. Abn1ah noted that it made its first

Total number of mobile phone

population of 127,8 milion

nts about 78% of Jagan's

move into the European market last year when it appointed a dealer in the Netherlands.

MARTYN WILLIAMS, IOG NEWS SERVICE

Taiwan Firms Warned

On Export Restrictions
TAIPEL

HE TAIWANESE government has

warned local componies that they can't export to Iran or North Korea electronics components that could be used to make military equipment. Violators of the policy could face jail time if officials believe they intentionally tried to export sensitive items, or if they made repeated attempts to export such goods, said James Wu, deputy director general of Taiwan's Bureau of

Foreign Trade.

The Taiwanese government could also cancel or suspend a company's export license for failure to comply with the ban, he said.

"We have had a few cases recently where customs officials have caught sensitive products that were to be exported and told the companies that they needed to gain permission to export such items to these countries," Wu said. "None of those items got past customs."

The list of controlled items includes consumer electronics devices such as computers. Lister printers and optical disc drives, as well as industrial products such as silicon wafers and manufacturing robots.

Last year, after talks with U.S. officials, the Taiwanese government increased the number of sensitive products to 542 items, from about 300.

#### EC Seeks Input on Internet Buying Rules

IF EUROPEAN Commission has proposed a review of rules designed to protect consumers baying goods and services on the Internet, with some officials dismissing the current set as ineffective.

The EC earlier this month began a three-month public feedback period, seeking input from consumer groups and retailers.

Only a fraction of European Union

consumers — 6%, according to the EC — currently shop online with compoints based in other countries. In a statement, the EC acknowledged that the low rate of cross-border shopping is partly due to language issues, but if a also said the lack of coherent rules for online transactions is to blame. The goal of the effort, the commission said, is to create a single, simple

ston said. Is to create a single, simple set of rules that can boost consumer confidence in the EU market. "Europe risks lagging behind." Meglena Kuneva. EU commissioner

for consumer affairs, said at a press conference in Brussels. "Complex rules are holding back the next generation of bright business ideas." #PAUL MELLER, IOS NEWS SERVICE

Compiled by Mike Bucken.

#### Briefly Noted

Australia': Department of Immipration and Citizenship signed a few year contract worth 84.2 milline handralian (CAR) millies (LS, with CPS Systems, a provider of adversals levels management systems. The deal calls for the agency to continue using the System, Australiabased company's Decircus's French Architely and Australian Personager Processing systems. CPS has supplied ensortly look to the Australian and CARS (CARS).

Vodatone Group PLC, a Newbury, England-based telecommunications vendor, last week said it can terminate its agreement to buy a majority stake in Hutchison Telecom

majority staba in Nutchkoo Tokocow majority staba in Nutchkoo Tokocow markedimo. International Life for STLI billion (U.S.) if a "probibition" threatens the sheal. The Vedadoros statement, included in a filing with the Hoop Keng stock exchange, comes amid reports that Marvhal, midic based Easter Group, which include a 53% stake in Hoop Keng-based flutchkoon Ersart Life, is sur-happy with seems terms of the deal. In JUNES INSPIRED INCH AT WAS SERVICE AND ALL AND ALL

Verizon Conervanications Inc. has agreed to sell its 26,5% state in CA Macional Telefones de Venazuela Venezuela is gevennment for about 5572 million (U.S.). Verizon is sellion state because of the country's effort to nationalize its industries

a STEPHEN LAMGON, IONNEWS SERVICE
Satyram Compruter Servicians Ltd. is
Hydrorhand, India, amongument that is
is netting use its largest development.
It is netting use its largest development.
India of the Comprusion of the Compr

Ingres Carp. Lest work signed a global sales and marketing affaces with Salyans Computer Services. Under the agreement, Salyans will establish an lague practice focuse on providing systems integration services to government, rotal and pharmacountical executions work pharmacountical executions work services the provider of open-serve database stendings, open operations in India in October, Processor Computer Services (India and Carp. Processor Computer Services).



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MARK HALL

#### F-waste Not

'NLESS you've been summering in Antarctica, in which case you experienced the phenomenon firsthand, you've seen the news coverage indicating that global warming is now considered a serious issue. Scientific studies, such as the prestigious and

conservative Intergovernmental Panel on Climate and difficult to dispose of

Change 4th Assessment Report released two weeks are, point to human activity as an undeniable

contributor Even Doubter-in-Chief President Bush mentioned global warming concerns in his State of the Union address last month. It seems you have to be a member in good standing of the Flat Earth Society to doubt the human effect on the Farth's climate.

The scientific consensus is that the release of greenhouse gases through the consumption of fossil fuels causes global warming. Like every industry, IT plays a part in this process. And as a growing industry, IT will be consaming more and more, and therefore contributing more and more to global warming and other types of environmental degradation, last consider PCs Gartner estimates that in the next three years, 400 million will be

replaced worldwide. That's a lot of

plastic plass metals and chemicals to

dispose of, with all of their attendant environmental effects It can be argued that IT helps other industries reduce their resource consumption by making, say, petrochemical processes more efficient. And IT makes it possible for people to work remotely, cutting down on resource consumption by individuals. Although I can't prove it. I believe that without IT the effects of climate change would be worse today, and much worse io the near future.

But let's not dehade ourselves Computers and networks come with environmental costs. IT devices can be resource-intensive to produce



ronmental factors to the total cost of ownership. calculation for every IT hardware purchase. Right now when IT have seen from vendors, neither party gives much thought to the environmental aftereffects. Can you imagine being compelled to upgrade to a new car every

It's time to add envi-

five years and then having to either give the old one away or pay someone to take it because its net value was effectively zero and it required special handling to recycle? That's the situation CIOs are in with hardware. But imagine if IT executives start-

ed to include environmental issues in TCO. They not only would ask how energy efficient a vendor's devices are but would also demand specif-

ics on the disposal of the gear at the end of its useful life. They might even prohe as to whether the widoets under scrutiny were produced in an environmentally sound manner. The answer might not be a deal breaker (and let's face it many an IT wendor's sales force would be chiefess about how the gear they peddle is put topether) but just asking such onestions would send a message to hightech manufacturers: All other things being equal. I will choose the more

environmentally conscious company. By and large ClOs do a pretty good job of minimizing the environmental effects of their IT assets, Today's tight hudgets actually belo here. since you buy technology only when you need it. But beyond that, many of you pay for the proper disposal of old computers. Some of you donate hardware to conprofits and schools. Others offer obsolete year to employees. A large number of you hire assetdisposal firms to recycle your stuff. To me, that sounds tike the "reduce.

reuse, recycle" credo in actioo. One more action - making bandware's environmental effects part of your TCO calculation - seems like a logical and necessary step, It's time to take it.

Don Tennant will return next week.



THORNTON A. MAY

#### Of Age AndOur Expectations

N THE cable TV program What Not to Wear, fashion gurus Stacy London and Clinton Kelly admonish pre-Cindenellus and soon-to-be-princes to make age-appropriate sartorial choices. The most common transfor-

mations on the show involve persuading Generation Yers to become more mature and professional in appearance and boomers to shandon the clothes of their bygone youth. Thoughts about what is appropriate for a particular age permeate many facets of life, from the way we teach children in classrooms to the tech-

nologies we use. While the fashion industry understands this important concept, the IT industry is only now coming to grips with it. Sincohaideer hinedal ages first started measuring

things, any - the chronological measurement of how old the überbenchmark year of our lives can

garding what we are

supposed to accomplish, milestones we are expected to reach, information we are supposed to know and skills we ought to master.

Milestones have even been lewislated, with lawmakers establishing a draft age (an age when it is appropriate to go to war), a voting age, a drinking age and a driving age. Insurers look at the driving records of those who have reached and surpassed the driving age and fix their rates accordingly, with the vouncest drivers pay-

ing the largest premiums. Also weighing in on what is ageappropriate, the American Academy of Pediatrics once told us that children under 2 should not watch TV at all and that older children should watch no more than two hours a day.



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\* the interaction with attendees was well worth it "



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MONDAY, APRIL 16 Registration Open 8 00um 8 00pm

9.30am = 11.30am - Concurrent Sessions (Primer Career Development SNA Tabula etc.) 11.30am = 1.00am - Luschers

12-00nm - 5-00pm Pre-Conference Golf Outno. 1 00pm - 5 25pm IDC Analyst Burelon

1 00pm - 5 25pm Concurrent Sessions (SNIA Tutorials, End-User Case Studies, etc.) 4.40pm - 6 15pm End User Town Hall Meeting

5:00pm - 7:00pm Speed Dating with IDC A Channel Partner Networking Event at SNW 7 00pm - 9 00pm Wescome Repreha-

TUESDAY, APRIL 17 Registration Open 7:00am 8:00pm

7 15am - 8 15am Breakfast

B 15am - 12 30nm General Conference Sessions 1945nm = 200nm | Luncheon

2:10pm - 5:40pm Concurrent Sessions (SNIA Tutorials, End-User Case Studies, etc.) 5.40pm - 8.40pm Expo with Dinner and Solutions Center

WEDNESDAY, APRIL 18 Registration Open 7.30am - 7.30pm

7 30am - 8 15am Breakfast B 15am - 12:15nm General Conference Sessions

1915cm = 900cm Eans with Luncheon 12:15pm = 7 15pm Solutions Center Open

2.10nm = 5.40nm Connument Sessions (SNIA Tutorals Enrichter Case Stuties etc.)

4:00pm - 7:00pm Expo and Solutions Center Open 7 OCom = 9 30cm Gala Evening with Denier and Entertainment

#### 9:30nm = 11:00nm Post-Gala Recention

THURSDAY, APRIL 19 Registration Open 7 30am - 10 00am

7.30am - 8:30am Breakfast B30am - 19-00am Concurrent Sessions (SNIA Tutonals, End-User Case Studies, etc.) 19:00nm Conference Concludes

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What is your organization's annual IT/IS budget for all IT/IS products?

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But who monitors society's expectations regarding technology ownership and use? A same of Chuter and Ladders might be labeled as appropriate for sees 4 to 7 but vendors don't do that for cell phones, instant messaging clients or search engines.

It stands to reason that in a world infused with ever more technology, our abains and our facility with technologies would begin to play a biener role in defining age-appropriate behaviors. Anthropologists have observed that the age at which parents give cell phonor to their children illuminator interesting boundary and life-stage issues. One sociologist believes that for kids, receipt of a cell phone is "a matter

As interesting as all this might be. what practical applications does it carry? Here's an interesting exercise that the IT Leadership Academy has conducted with MBA students, social eciantists modical researches and political scientists: Have your team chaose area of interest - say \$ 16, 21

and 40. Then ask them to write down the acc-related expectations they have for each, including their agerelated technology expectations (tools preferences and behaviors) You will be surprised at what you learn about attitudes toward age groups. And that's something that

important to know In the workplace, there is a widely held misconception that technology

is a young person's game. We are told by pundits that digital natives - those who grew up after comput ers, cell phones and the Internet had become widely available - and

destined to be the new masters of the universe. But is this conventional wisdom the real truth of the matter? I don't think on In reality, we live in an are in which old forms and traditions are breaking down. Thanks to technology old people don't act like old people anymore.

Biases based on chropological age are disappearing Figuring out personal age-appropriate technology behavior is confusing today and will become more complicated in a future workplace that smashes together

certainly can't use the phone in

Japan or Koren and most Furnmen

countries are well along with their

Also, in order to be a success.

portability, people are rejuctant to

change networks.

lies Thomas

Harpenden, Envland

contract her ausa own with number

ACK GOLD missed a big point in his article "Will Anyone An-

counterentuitve blunderburses.

Only Inchroqueks who use them

3G megrations (which gives a useful

at least five distinct generations of employees - from the Silent Generation. born in the Depression years before World War II, through the postwar bobs becomes their Consession V and millennial for Generation Y) success sors to Generation We, now mostly in elementary school. One thing that's certain shout this

workplace of the near future: You will no longer be able to no by the general rule that the oldest may in the joint is the person in change - or the least knowledgeable about technology #

#### WANT OUR OPINION? More columnsts and links to archives of previous

#### READERS' LETTERS

It's Misleading to Say We're Overrise for Flu

of coming of sec"

A VIAN FLU was discovered hearly 10 years ago: the Chicken Little squawling about the danger of an "overdue" pandemic has more to do with anendes usupo fear for profit and loss to do with fact I"Heads in the Sand," Technolnov Jan 81 Pandemics do not occur on a periodic schedule, so il's deceived to proclain that we are "overdue" for one. As for the deaths. in the 1918 pandemic, remember that the cause of fluwas not set understand at that time Since then there have been several pandemics. all of lesseeing seventy and many sceres. More people die each hour from tuberculous then die each year from assen the Sponerhoo lear about a nonexistent threat dilutes efforts to combat harmful deseases that are a real threat to mankind Terry Clark

IT director, Columbus. Ind.

Not Buying Apple For the Enterprise

WE HAVE about 600 mixed campus (running both Windows XP and Mac OS X). I agree that Vista will pose headaches, but Mark Hall's implication that Leopard will gain traction in a managed enterprise environment is abound ("Why Vista Is IT's Big Headache \* Forecast 2007 Jan 11 Mac OS X and I consed have major flaws in their integration with

Active Directory and Kerbanes and how they handle NTFS shared bles. Apple makes rule committees but until it gets its enterprise manage ment and deployment tools up to speed, they will continue to be toys.

Doubl Alleger Director of technology Trinica School, New York, david attenuation trinityschoolmy; one

Going Deep on Vista Group Policy

UST A few corrections on your awareness (NLA) as it mistes to Group Policy (GP) in Vista (and Langham Server) ("Langham Servor Revivaled Group Policy Enhancements "Computerworld.com Jan. 121 First off in one-Wista the issue is that slow link detection uses internet Control Message Protocol (ICMP) to determine il a domain controller is

available. This is actually a very last process, but not very accurate, and if ICMP is blocked for any reason between client and domain controller. then all GP repression talk NLA morows on this by dono away with YCMP and urung a more conhistic stad alreading for defermance link speed between

client and domain controller. In addition, NLA adds new refresh behavior to GO Considerable of a series or computer is not in contact with a domain controller during a normal GP salvesh cycle, then the next time that NI A detects a domain controller, it will trigger a background GP

wlevels then and there. Note that the behavor described in the article for nce-Vista connection via VPN and requents a reboot to refresh policy is not correct (and wouldn') really work, since during the reboot, the VPN would not be connected). What hancens one-Vista is that after the VPN a connected background to fresh of GP happens on the normal 90-moute schedule. The nely these

and only if there has been a cress out GP refresh taking and a domain controller than becomes available. then NLA well automatically Impres the background refresh rather than warting for the background interval. Darren Mac-File CTO and founder

SDM Software Inc. San Anselma Calif

Editor's note: The unline article discussed in this letter was revised on Jan. 16, in part to reflect some of Mar-Elia's comments.

FROM A European or Asian specifications for the iPhone are a surprise guad-band GSM/EDGE and Wi-Fi 802.11g ["20 Things We Don't Know About the Phone Connuterworks.com Jan 111 But there is no 35 support to any of the various standards, or later 802 TI standards (covering speed and

secunty) or WMax. All of this will

slow adoption outside the U.S. You

iPhone, Therefore ...

constantly can flours out how to use them, I don't have to use my cell ahone constantly so every time ! want to do something like get on the Internet, it takes me forever to figure Phone to come out so I can have a device I can actually use. The Phone has a beautiful intelline interface. Once I tred to find an address low

a business on the internet on my phone. My dower found the place by driving around before I could get it to secréa fino em eo qui remoo Barbara Green Owner, Lost Coast Brewery.

Eureka, Calif. F STEVE JOBS is womed l'Cisco Sues Apple Over iPhone Trademark \* Computerworld com Jan. 101 he should just change the

speling and call if the iFone. We'll understand

Bob Hand Tallahassey Fla.

A TAT SHOULD take a note from Steve John and call its workers. service Vergon ["AT&T to Reclara Cinquiar Brand Monday," Computer

world com Jan 121 M.I Seebork Project manager Albuquerque

Samha Time

swer When Apple iPhones Home?" [Computerworkt.com, Jan 10], Marry ENJOYED the article "Hands On: Setting Up a Storage Network people have cell phones. They are in Your Home" [Computerworld.com. Jan 71 and I think many people will had it useful. One manor pomertion though All of the systems reviewed by Robert L. Mitchell can be used with I year clients if the I year client runs Sambo. I have used a RAID-5 Buttalo Technology TeraStation as my home NAS device for a year, and if worder from with all of much source

Mar OS X and Windows systems Bill von Hug Venna Pa

COMPUTERWORLD welcomes comments from its readers. Letters will be edited for brevity and clarity. They should be addressed to Jame Eckle. letters editor Computerworkt PO Box 9171 1 Seeen Street Framevoham

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## WLEDGE CENTER

Inside 02.19.07

husiness? Not anymore ing IT Budgets. IT finance moves from a take-what-you-can-set approach to proactive debate about spending priorities.

lates Staff Shills. Forget the old IT career ladder. One way to advance is to zigzag between IT and business. deer Mark Hall

#### **FRITAR'S NOTE**

T'S A CHANGE that's making more of a soft clatter than a loud crash. Compelled to achieve closer alignment with company needs and business demands. IT has once again entered a time of transforms

tion. Where once IT solely helped support the business now it must belp define the business. Although tangible change isn't

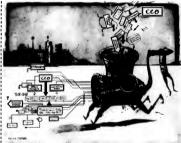
ubiquitous yet, reinvention is happening in force at some of the most influential IT departments in the country (see page 24). Take Trans World, which runs some 800 music stores worldwide IT analysts there have been elevated to

the project management office, where they now oversee all technology and business projects and all business process changes. At consumer

goods giant Procter & Gamble, the IT department was first restructured and then merced with human resources, finance, strategic planning and relocation operations in a companywide shared-services organization. IT workers now

focus exclusively on high-level, IT-enabled business projects, while routine IT work is sent centside. The dynamics of IT finance are changing too (see page 26). At bro-

kerage firm Insurance House, IT now facilitates the budget dialogue and belos set spending priorities. At Rent-A-Center, new IT initiatives are now designated as capital | | experts stress that titles no longer



expenditures, thus giving key IT projects a higher profile. The well-trodden IT career ladder is being dismantled and rebuilt

as well (see page 30). If you think the path to the top is a straight line, think again. CIOs and IT career

I matter much, and following a ca-1 reer path that zigzags from business to IT and back again is a good | exactly the point. way for tech staffers to develop

business choes. In the following pages, you'll find more examples of IT reinvented. I Have we given you something

1 to think about? In this time of 1 reinvention, fresh thinking is

Ellen Fanning is special projects editor for Computerworld. She can be contacted at ellen fanning a computerworld.com.

From supporting player to strategic partner

#### Just supporting the business? Not anymore. IT leaders are helping to reinvent it. **By Julia King**

handing out any gold stars to IT for providing good PC support on two-tweking, service at Raytheon Integrated Defense Systems. Consistently reliable and excellent IT service should be a given, he says.

What businesses need and IT should be providing are innovative solutions to business challenges. That means creatively applying technology to produce goods more efficiently and at a lower cost, to sell and service more of them, and to do so at the highest possible

profit margins.

If also means using IT to create new products and services and even whole new business models, says Darry!

Lemecha, CO at Alpharetta, Ga-based ChoicePoint Inc. Because technology is embedded in just about everything a company does, "technology strategy and business strategy and business strategy are not only the sizes.

Kathleen McNulty, CiO at The Schwan Food Co. in Marshall, Minn., puts it this way: It's not about IT automating the business anymore. It's about innovating it, improving it."

sout innovating it, improving it.

So, forget about IT supporting the business. IT leaders are focused on reinventing the business, starting with the IT organization.

Their timing couldn't be better, according to Gartner Ine, which predicts that within five years, 60% of chief executives will make their ClOs responsible for using information as a strategic freade revenue-generating) asset. Gartner also predicts that 40% of CEOs will make ClOs responsible for business model innovation.

But IT executives such as John Hinkle at Trans World Entertainment Corp., Patrick Bennett at El Entertainment Television Inc. and Filippo Passerini at The Procete & Gamble Co. are all over this trend already. They are completely transforming their IT organizations, and everything is up for radical change, from how and where IT is housed within their companies to IT ish this. IT dates in pressionly



# Reimagining IT Department

involve responsibility for business processes as well as the technology that surports them. Also up for reinvention

is how IT value is measured.
"If you want to drive a significant amount of behavioral change in an organization, it takes some big swings," says Hinkle. "Maybe that means dramatic structural change or changing what

World, it involved all of the above.
One of the first things Hinkle did
when be came to Trans World from
General Electric Co. was abolish the
title of analyst and move people in that
role into the project management office
(UMO), which oversees all technology
and business projects as well as all busi-

ness process changes for the company's 800 music stores. Project managers have developed expertise and a special rapport with the specific business functions to which they are dedicated. New projects and even systems changes go through the PMQ, Which uses Six Sigmes

says JOHN HINKLE OID at Trans World Fr

project management processes.

As CIO, Hinkle oversees the PMO, is

a member of the company's executive board and is deeply entremeloot in all berings decisions

"I'm involved in merchandisane, store planning and in every other core stronggic meeting at the company," Hinkle says. To expected to be very well versed in these things, and I'm also expected to answer more than the IT questions. I'm part of the strategy brainstorming

Hinkle expects his IT ream to be equally well versed in business processes, which is why every IT staffer spends a minimum of three days in the field overs wear, working in a store, a warehouse or a department such as finance or navroll. "That way, they know what the business really needs and how to help." he says. "You don't have a supply chain system or financial system that works in a hos or a point-of-sale system that iour takes money. Now we have highly integrated data flows, so every project requires an understanding of all systems and all business areas." By knowing the business, "they better understand why they might get a call [for support] at 1:00 in the morning," he adds.

#### Local-Level CIOs

At ChoicePoint, Lemecha created a federated structure with run bands of IT positions one for technical workers who hold the title of IT architect and one for managers, who hold the title of business information officer, "We believe in two independent career paths. Just because you don't manage people doesn't mean you should be limited in how far you go in the company," he says.

The BIOs are embedded in each of ChoicePoint's businesses and net as local CIOs. "They understand the opcrational issues, they know all of the people, and they spend 100% of their time in the business units," where they can directly affect business-IT alienment. Lemecha says.

"They know and understand the business because they live in the best pess" he says. The chief benefit of this arrangement is "when you fix the alianment problems, you do the right IT projects and, ultimately, impact rev cauc and act better customer service." Lemecha says. ChoicePoint's consistent revenue growth, ranging between 5% and 15% annually for the past several years is no coincidence be seen

At Cincinnati-based P&G, the company's top IT project over the past three years has been to reinvent IT itself according to a four-year strategic alignment plan. "In the last year, we reshaped, renamed, refocused and began retraining our 2.500-person IT team." says Passerini, who is global business

services officer in addition to CIO.

The IT department was renamed from simply IT to Information & Decision Solutions (see story below). The new IDS group was then merced into DisC's Clobal Business Coming the stand services organization which is also home to the human resources, finance, stratocic planning and relocation functions 1DS staffers focus on high-level IT-enabled business projects exclusively: toutine IT tasks are oursewood to Hewlett-Packard Co. under a 10-year. \$3 billion agreement signed in 2003 Passerini has charged IDS with the same three business enals of every other

P&G business unit to increase profes

#### market abore and solume. To accom-Getting the Message Out

entine the IT department is all well and good, but unless IT staffers and other business units fully understand the new structure and its

expanded role, the benefits will be dow to materialize. The reverged IT group at Procter &

Gamble for example "is all about viceobying what is of business value and determinng haw technology can help provide that value. It's not about merely keeping sys letts and networks up and running," says Filippo Pessenni, plobel bursiness services officer and CIO at the consumer nackword goods grant. And its name should reflect what the emercution does. So, what was once called IT is now called information & Decision Solutions. The name not only more accusately describes what the consnization provides, but also helps IT employees better understand that their mission is now to deliver strategies and technology-

plish this, IDS focuses on three key tactics: settine and distributing data faster. innovating and speeding the ways in which PecG gets products to market. and applying "consumer-friendly" techniques to delivering new IT products and services to P&G's internal user base. For example, IDS has developed a vir-

tual modeling process and simulation techniques that allow package design consumer testine product testine and even new manufacturing techniques to be developed and tested in a fully virtual environment, dramatically accelerating the cycle time for new products. "When we have new products, we can build virtual retail shelves and even

show our competitors' products on them.

More importantly, we can build our products to the scale of different retailers shelves. This is all about building busi

ness capabilities for P&G \* Passerini says. \*The whole idea is running IT as a business, but not necessarily using [traditional return-on-investment financial measures to quantify IT's value " he says "In the end no one believe there rembers and one

"The numbers you want on higher profits, market share and volumes. In reality, it's all about the relevancy of IT's contribution to the business." Passerini adds. That's how IT's value is

managed or Day E! Entertainment Television in Los Angeles has radically departed from its

a resolved solveions to the company Similarly, at Tewlisbary, Mass, -based Raytheon Interruted Delense Sestems: the department that was known as information Systems is now called information Solutions, which more accurately describes

what the group offers the rest of the comcook one CO Store Office At MT. CIO Jerry Grochow regulady communicates what the IT organization is working on and mublishes undates on its accomplishments in unious committee ones outlets. IT also produces a temporative news-I letter in read and online and bolds knychome

I serviners and other forums to share new technology projects with other departments "When I came to MET there weren't ondedicated resources focused on commureceiton for the IT department," Grochow notes. New a dedicated IT communications. stalling concepts to home

"Communication is as important to our success and the success of our institution as the lechnology that we produce and support," Grochow says

- JULIA KONG

traditional model of separate IT and TV broadcast operations. The change coincides with the broadcast side's shift from tape to digital technology. Before separate vice presidents oversaw online. television network and IT operations. Now, there is a single senior vice president of technology and operations, and ideas, designs, technology and projects are shared among all three operations.

For example, IT personnel were involved in the design of E! Online content from the time the site was first bunched in October 2006, notes Benpett, executive director of business. applications. "Before, we would have gotten the spees and built it much like a contractor," he says. "But now, IT was in on branding discussions and sadience focus groups from the beginning "What we've done is flutten the

more formal (software development) processes and made them more person-to-person" as a way to develop products and services faster across all media, Bennett says, "As we interact with executives and users and release software iteratively, we're also gaining greater domain knowledge about the husiness" he notes

Just recently. IT participated in a discussion about offering an online fee ture that would let Web viewers of El Online vote on whether celebrities on the red carnet at the Golden Globe and

Oscar celebrations are hot or not. "Now that's not a traditional discussion or conversation you would have in IT," Bennett notes wryly, "But now we're thinkling about these kinds of things across all media

Under the new organizational structure, "there's constant interaction and exchange of information and ideas through human contact. As opened to being assigned to a user department, I'l is constantly interacting across media. be says. "You're more of a partner with the business. You're creating products

together. IT is definitely stepping out from behind the shadows of back-office cornorate systems Bennett says (T's broadening role as a business neer is one of the main year sons he decided to earn an MBA at the

University of California, Los Appeles Anderson School of Management "At first in marketing meetings, we'd spend hours talking about color palettes and branding - and I didn't know a company brand from a cattle brand."

he says. "It has been a real eve-onener." "It's very much a different mind-set." says Raytheon's Olive, whose over hauled IT organization new includes customer relationship managers who are embedded in the business, plus 10 teams of technical workers who support IT frameworks such as infrastructure application support and desktoe services. The vast majority of those technical workers are "homeroomed" in crossbusiness teams that work on projects

that the customer relationship managers bring to them, he notes. "It took two years for this model to really jell. At first, there was a little bit of tension while the clarity of roles and responsibilities was a little confus ing," Olive acknowledges, "But once we defined roles and responsibilities, it improved morale and worked to create a highly motivated workforce because we were making higher-level contribu-

tions to the business."



# IT Budget

IT finance is moving from a take-what-youcan-get approach to a proactive debate about spending priorities. By Jennifer McAdams

se man mich o rein to the dentist's office. IT budgeting tends to rank fairly low on any CIO's list of favorite activities. While alternative anormaches to forecasting corporate IT expenditures won't necessarily make the process any less tedious or painful, progressive new budgeting practices could make life easier in the long run.

- 5% of total operating expenses, for instance - and expect IT departments

Though dreaded all year, the annual budgeting process rarely changes for most top IT executives. Corporate officials usually prescribe an amount

to keep spending within that figure Alternately the bean counters simply pull IT costs from the previous year and slap on a slight increase to account for inflation Seemingly straightforward, the

traditional IT budgeting process still manages to put many ClOs and IT controllers on the defensive. Corporate accountants and business unit leaders demand to know what departments are cetting in exchange for their technology surcharges, which are often levied as a charpeback or a fee extracted from various operational divisions to fund

the IT department. To inject the new levels of transparency that senior managers now demand, and further assert the business value of IT. more CIOs are becoming

proactive "Now we are facilitating the dialocue and beloing to establish the priorities. This subtle change makes a world of difference and allows my team to get an early heads-up so that we can plan resources accordingly." says Robert Golden, director of straHouse a Marietta Ga-based brokerage company that works with independent retail insurance agents throughout the

#### Table Talk

Now afforded a more active role at the budgeting table, many CIOs feel immedigte pressure to come up with better ways to plan and account for expenditures. "We need to become more sophisticated with our hadactine models vet keep the process as simple as possible," says David Oles, IT director of research and development at Rent A-Center Inc., a Plano, Texas-based chain of mot-to-own retail stores.

One simple move that Rent-A-Center has made involves the designation of new IT initiatives as capital expenditures. The idea is to isolate and highlight funding for new projects, rather than lumning these investments in with operational expenditures.

Rent-A-Center isn't alone. Many corporations are beginning to neel apart these two distinct budgeting subsets.

There has been a real highrestion under way," explains John Baschab, co-author of The Executive's Guide to Information Technology (Wiley 2007) "IT departments are breaking the cost of new projects out from 'lights-on costs' a term I use for the funding required just to run the IT department with no new initiatives. There is now a

real effort not to mix baseline costs with the funding needed for new projects." Solitting apart the two main components of a technology budget is little more than a good first step, however. Prudent CIOs will also impose the use of pricing and other industry benchmarks to make sure they are setting the best deals possible "Benchmarks are becoming a big

driver. It is crucial for enterprise IT officials to find out if what they are paying is out of whack with what the rest of the market is paying," says Chris Nuttall, managing consultant in PA Consulting Group's North American sourcing and service management practice

For CIOs to craft meanineful budgets, they need timely yendor pricing data, argues Jon Winsett, partner and managing director at NPI Financial, an Atlanta-based firm that specializes in budget management practices.

"Leading-edge companies are now working with outside pricing experts to gather bistorical pricing data. This allows them to understand the pricing flexibility of IT vendors and better grasp the impact that current market Continued on page 28

# ENTERPRISE STORAGE. ONE ARCHITECTURE ACROSS ALL TIERS. SLEEP.

PICK ANY THREE.

Continued from page 26 conditions really have on their hadnote" Winson your "CIOs are more able to accurately identify savines in IT sneed simply by understanding what veodors are really changing for their

Golden says his department is dethe stand-alone capital expenditure budget. This forecast is done with a solid gauge on the pulse of the market."

## Not-So-Nasty Chargebacks

along to various business units through delicate chargeback arrangements. polid market meanarch is a percentity By their very nature, chargeback scenarios can institute ill feelines be-

"You usually see chargeback see-

are having difficulty trying to get value out of IT " says Baschah, "Charushack machaniums tend to cause underinvestment in critical infrastructure components as well as significant in-

ternal desfunctional behavior Yet for many corporations, charge backs are a fact of life and aren't all bad. "We use tracking by business unit and an allocation process to charge the business" says Golden, "Typically, this can be a postty narry property and ours is not without conflict. However, because we now develop our budgets and business cases together with our business partners, most of the spend is known unfront and that minimizes surprises. We also provide complete transparency to all business unit heads." Sean Worthington also recalls mixed experiences with chargebacks from his

days as head of the IT departments at Silicon Graphics Inc. and other large organizations When I have employed chargebacks, the organization desired to have control over IT spending. However, the chargebacks allowed me to more pre-

cisely allocate the IT costs back to the customers of those IT services," says Worthington, who is now CIO in residence at Planview Inc., an IT portfolio

parties can check the competitiveness of their IT cost structures by using the external benchmarks their competitors

use along with information from worders lo assess competitiveness, "explains Gartner analyst Howard Rubin -----PORTFOLIO MANAGEMENT: A COM-

prehensive view of all IT projects across an organization that includes budget-I majered costing data. This improves preject/investment focus and lighters

control over spend by forcing explicit statement of project benefits and better tracking of the delivery of benefits," says Scott Holland, sensor director and IT program manager at The Hackett Group

DRIVER-BASED PLANNING Harnessing the knowledge base of a 1 martirolar humaner until to hatter connect If costs for that deepen. This is the best way to make sure that the business and and IT plans and strategies are aligned

with each other, so that everyone is rowing legether," succests Robert Hull chief financial officer at Adaptive Planmake sure annual budgeting figures are | ming Inc., a budgeting forecasting appli management company in Austin. In fact, charmebacks can be buebly effective expecially in situations involving easily measured expenses.

'Y harvehack is best for commodity service and cost recovery when con sumption is fairly predictable and demands drivers are clearly understood and manageable," says Scott Holland. senior director and IT program manover at The Hackett Grown a strategic advisors firm in Atlanta "This is of ten the case for maintenance projects.

- for example when IT dedicates a certain level of full-time equivalents to another department's maintenance needs and recovers through a chargeback instead of a budget transfer. This helps IT keep management control over those FTEs, where they may have lost management control if a budget transfer was arranged." In some cases, chargeback arrange

ments are mornhing into IT usage allocations. Specifically, business units are charged for their consumption of resources, such as storage or network traffic volumes, "For instance, a porticular business unit in a financial services company might be processing a million trades per day," says Howard Rubin, an analyst at Gartner Inc. "IT can figure out how much this takes in terms of storage, networking resources. etc Consumption becomes visible and charges are assessed based on system

volume and unit cost."

Allocation of IT resources based on usage often holds practical appeal for business unit leaders. "When both IT and business units know the level of support they are dealine with and the costs involved, the mutual satisfaction level is increased," says Brian Schwartzentraher principal consultant at Glass-House Technologies Inc. in Framingham, Mass. "Unit costs are per gigabyte. per server, per port or anything else

that affects the delivery of service." By moving toward usage allocations, corporate IT departments might be able to use the budgeting process to begin functioning more as internal service providers to business unit customers. In his book, Baschub necommends this approach and suggests the use of inter-enterprise contracts

to clarify expectations. "Actual hours for supporting the business unit are tracked in a time reporting system, and actual hours are billed. Service levels are defined, and the IT department is responsible for achieving service levels guaranteed," he writes.

As a rule. IT leaders should no longer view annual budgeting pow-wows as the corporate equivalent of a root

### Enter the IT CFO

canal. Instead, CIOs should turn these exercises into opportunities for change. "To the extent that the budgeting process remains a blunt instrument to force IT spending to a certain limit and keep it there, it will continue to draw criticism that IT is expensive, unresponsive and ineffective " says Holland Indeed, the CIO grown tired of regu-

lar budget bludgeoning should consider a more proactive stance and demand not only a seat, but a voice at the budgeting table.

McAdams is a freelance writer in Vien na, Va. Contact her at IMTechWriter@

products and services.

termined to use industry benchmarks to fight overspending in all areas. "My managers forecast spend based upon the past 12 months. This includes staff training, voice and data lines, software maintenance handware support and

For IT department leaders who must routinely justify the costs they pass

tween IT and other corporate departments.

narios in a troubled IT department and in environments where business units

Budgeting

prescription of IT budgets using minmum criteria, such as funding levels from the previous year "This method lacks the clathy necessary to tody understand what everything costs and how IT costs align with the value to the bicaness." says Sean Worthington, CIO in residence at Planking ----------

ROEBACKS: A budget method that charges business units for their use of internal IT resources. This method is often considered when the business ability from [] " says John Baschah co-author of The Executive's Guide to information Technology

BENCHMARKUNG: The use of industry data and ensuants - such as analyst reports and vendor prioring floures - to on track. "Using these techniques, com- I cation company in Mountain View, Calif.

The Hiring Process According to Robert Half Technology

Robert Half



# Revitalizing Staff Skills

Forget the old IT career ladder. One way to advance is to zigzag between IT and business. **By Drew Robb**  s THE role IT plays in producing business value changes, so too does the notion of traditional IT skills or a typical IT career ladder.

"The world is be"The world is besystem, composed of 6 billion people,
millions of businesses and millions of
technology products connected into
service networks," says Gina Poole,
vice president of innovation and university relations at IBM. As a result,
tradizional technical expertise is no

longer enough.
"In today's world, we need our technology people to be the business—to live and breathe it." according to Frank Laura, ClO at Quicken Loans Inc. in Livonia, Mich. "Because the business and the technology change almost daily, our team members must immerse themselves in the business and the technology."

That isn't to say that strong technical skills are no longer important. But they are increasingly viewed as a commodity that can often be obtained by hiring a consultant or by outsourcing nonessential services. What really matters, then, is knowing how to apply technology to improve business performance. "You can go on the street and find

a good Java programmer or those types of skills," says William Ulrich, president of Tactical Strategy Group Inc. in Soquel, Calif. "It is much more difficult to go outside the company and find someone who understands the indepth nature of your business."

### Computer Contortionists

According to IT executives, the new business-focused IT structure requires skills in multiple disciplines.

"We are becoming versatilists rather than technologists," says John Stiffed director of IT governance and strategy at accounting firm Grant Thornton LP in Chicago, Rather than just being skilled in a particular type of technology, he says, IT workers need to be "adopt at understanding business issues and applying their technical expressions and understanding to develop

solutions."
This changes the traditional IT career ladder. "In IT, that ladder blew up years ago," says David Foote, president of Foote Partners LLC, an IT career research firm in New Canaan, Conn.

Now, there are two ways to get to the top of an IT department. "A lot of people in IT don't want to move into management but are still very valuable to the company," says Foote. "When

you have a very talented senior technical person who doesn't want to become a manager was can move them into something like a distinguished engi-

The second path allows IT workers to switch between IT and business functions. "There are career tracky that ziszag back and forth between IT and business," he says, "Someone might start as a business analyst than move into a project management job. then an IT management path, then go back to an innevation path ... then to process management, then move up a rung to process leadership or process ownership, and then go back over to management as manager of an IT line of business." Similarly, systems architects can ziezae between designing processes and designing the infrastruc-

## ture that supports them.

The bottom line is that titles are becoming less important. What counts is the particular technical and business skills someone can brine to bear.

\*Companies are not looking at IT people as people with titles," says Foote. "They are looking at the role

So, for example, while a company might have looked for an Oracle database administrator in the past. now it is looking for someone who can make its medical database HIPA A-compliant or can give customers access to inventory availability As such an IT worker's role can continually change. with or without any for-

mal change in job title. We frequently assemble 'virtual' or informal team structures that don't necessarily report to a single leader but work together on projects to support various business

functions," says Laura. And as IT workers move through these new teams, their individual roles alter, "For one particular need you may be the senior team leader for a large group of people; for another time, you may be almost an indepen dent consultant facilitatine processredesign sessions," says University of Pennsylvania CIO Robin Beck. This leads to a de-emphasis on formal titles

and traditional career ladders We don't have a traditional skills ladder or titles like 'Analyst III,' " she says. "We pay for responsibility, we pay for skills, we work hard to give excellent service, and when you do pood work you got more maney

This focus on business alignment does shift the types of careers available, however, whether or not they are given formal titles. "There are more carrer options now " says [ lleich "You can move into an architectural position - data or technology - but you can also move into a role of a business analyst or business architect if you have built up enough business skills."

#### The New, Reskilled IT Worker The shift away from strictly IT posi-

tions doesn't mean there's less need for technology-skilled staffers. In fact, that need is growing.

"As technology is becoming embedded in all aspects of business, society and our personal lives, the need for skilled IT professionals is greater than carra says IRM's Poole "There is an increasing requirement to apply techpology, engineering and disciplined thinking to all aspects of the business." But the very nature of IT work is evolving with the shift to a services economy. According to the Bureau of Labor Statistics, nearly 80% of the U.S. labor force will be in service industries by 2014. So, while there will still

In today's

world we

need our tech-

nology people to be the busi-

ness - to live

and breathe it.

he a need for IT to provide computers for the hard subjects. such as computer nided design and genome sequencing, more of the iobs will revolve around facilitating customer service. To this end IBM's Academic Initiative has been working with universities to develoo a degree program called services sciences.

management and engineering (SSME). The program encompasses computer science, business strategy, social sciences and other fields SSME programs are now available at Carnegie Mellon, Penn State, North

Carolina State, and the University of California Berkeley amone others \*IBM has been aware of these hybrid roles for a long time and has pioneered the idea of zigzagging," says Foote. "If you look at this model, it makes a los of

sense In addition to broad-based programs such as SSME, IT groups are also bringing in experts from other areas of the organization and giving them the technical training they need. Beck reports that her latest hire came from a university business office. Stiffler says his CIO was an accountant for

## Five Old-School Skills For the New Age C10

As the IT personnel structure t fluid, duties and titles change. But the block and-tackle skills for the too [7 job haven] changed much at all. There has to be soone bady who is the master of the technological infrastructure," save William Librch, pres of Tactical Strategy Group. And that some body is the CIO. So, what sidls make a successful CIO in this new world? Many of the same skills they've always needed, such as

to recognize that you are in business to me money primarily," says Carl Turza, CIO at Sigme-Aktrich Corp. in St. Louis, "Technoligy is the only thing that allows you to achieve free turgs smultaneously: increase nev enue, increase margins and increase service level. If the CIO is busy applying technology to do those three things, the busin employ a competitive adventage.

2. Ability to connect with elects. "I in really important to have good intering sidis. good communication skills and good re rehip building with clients internally and malk "says University of Pennsylv Of Boton Bark

#### 3. Londorship and a vision for the

25 years and therefore has an excellent grasp of his firm's business operations. The papages skills can also be obtained on a temporary basis. "In addition to looking at the traditional coders, we have to realize that we need example artists for Web dusing or economists to beln us build models for forecasting," says John Rome, director

of data administration and data warehousing at Arizona State University "In the last year, we brought in various skill sets to help us in those areas." But how does one go about gaining

those skills? There is no single approach. Beck says that she spends a lot of money on retraining - some technical and some customer service. More than 80% of her staff had training last year. Rome takes the budgetary approach Since his staff is weak in project management, Rome says, he adds money to

project budgets to include additional training in that area Others advise taking courses or seminars in finance, communicatio

or business. And then there is the possibility of serving apprenticeships.

Autoria. "A successful CIO must po and practice strong leadership," says Fran Laura, CO at October Loans, Trurbormo they must also spread their leadership but throughout the team "Saus Libroh "The COO or IT people may be the only ones who can see across the business stovepapes that have been established. The CIO could become the visionary who can allow little senior business people to move invested in a more court-

A leader and branched and the hou sees. A successful CIO is "someone who has developed a strong relation the business constituents at a survive local and can help align the IT organize the business strategies," says John Stiffler director of IT governance and strategy at Grant Thornton, "He can put theres in the context of the business. He doesn't wait for the business to tell him what to do, he tells the business how IT can help them

S. Experience in the technology treaction. "Technical skill is a given," says Back, "You can't talk about creating envir ments and change unities you have built and

nce. That is the basic skill this all depends on."

"Some businesses have notated IT staffers to work in the field for six to nine months and then rotated them back into IT." says Tactical Strategy Group's Ulrich. "That gives them a much better feel for what is going on in the business."

Interdisciplinary workgroups also play a role in building skills. "You can have almost a recognized program of building experts through these collaborative teams who are exposed to so many things on the tech and business

sides," Ulrich adds The bottom line is that training

needs to be ongoing, with skill improvement being built into everything the IT department does

"Retraining and reskilling are tremendously important for IT organizations, but it is a continuous thing you are doing," Beck says. "It is not a radical change, but taking components of what is the IT skill set and continually adapting them to what our clienty need "A

Robb is a Computerworld contributing

## Snapshots

## What Matters Most Which skill do you find most valuable

Ability to work well with continues and used

Castomers and and use

Ability to manage a project well

Strategic thinking skills

## Room for Improvement

Which skills do potential IT leads most frequently lack?

Strategic plannin

Communication

6 Knowledge of the business

Budgeting/lear

## **Articulate Leaders**

in an up-and-coming IT leads

2 Knowledge of the busine

A record of innovation

A career history in my indust

SOURCE ORGANIC EXCLUSIVE COMPLETENCIAL SURVEY OF COLUMN TERM CONTRACT TO SEASON SOLD

MARK HALL

## Business Is Business

F YOU WANT to treat your IT department like a business, go ahead. It's your career. But you might be putting your company at a competitive disadvantage if you do.

I know it's all the rage now to push IT departments beyond merely being aligned to business objectives and morph them into virtually independent business units. In a special report on the subsct. one four store publications. CO manus. I commands. IT fort a business itself. And was rever

aine, concluded that the savvy IT executive will member of a business. Business Management magazine says of a business. Business Management magazine says. The property of a business for the property of the same property of the property of

can do it better.

Oh, come on. Let's be realistic. Can you imagine senior business-line managers running around gather-

nice business-line managers running around ing application requirements, getting bids from external IT consultants, managing the project, and ensuring that it fits corporate standards and meets business and regulatory compliance mandates? Of course not. That's what IT is meant to do. Needless to say there are rare but clear

recourses to say, uniter air fair out occasi circumstances when IT should be perceived as a business. Sometimes it is the business, as with online retailers and software-sa-se-rice vendors. How they do IT is as important as the service they offer. For a Web-based retailer, IT is the only path to customers. Without IT, the business wouldn't exist. And great online Saussoftware barded by creave IT is really usin a camersoftware barded by creave IT is really usin a camersoftware barded by creave IT is really usin a camersoftware barded by creave IT is really usin a camer-

service. Who would want it? The best online retailers and SaaS wenders have a relectives business forces on IT because without it, they won't have customers. However, most companies shouldfur run IT operations like a business because IT is not their business. But, if you were going to, which organization would you want IT to enutated Emore Probably not. World-

tions like a business because IT is not their business. But, if you were going to, which organization would you want IT to emplate? Earnose Probably not. World-Court Doubfuld. How about Apple under Steve Jobe? Now there's as idea. But would that the the floundering Apple when Jobs was forced out in 1985, or the company for terms to Joby? Probpe who say IT should be run like a business are spousing platitudes of little or no practical value.

IT is a vital corporate service inside a business some would argue it's the most vital. But for most companies, IT fart a basiness itself. And you never should treat it as such. Once you do, you'll lose competitive advantage because others in your market will likely be thinking of how IT can help a business initiative succeed while you're wondering how such an intitive will help your quarterly PLO, treport to the CFO. You'll become more timid in launching aggressive projects, and timid people door hanke great IT leaders.

projects, and timid people don't make great IT leaders.

As a business, you'll be trying to squeeze maximum value out of your IT investments, but competitors that a aren't smitten with the "run everything like a business" i ideology will be experimenting with new, advanced technologies that rould a live their sales and product

came advantages that your company will lack. That about in There was no business to a business of the company o

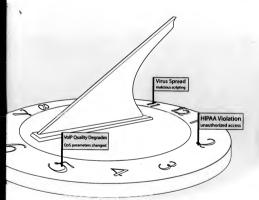
and improving their communications with the home office and their customers, with positive bottom-line results. Naturally, your department's bottom line will continue to look dandy, but your com-

party will be kosing market share to its opponents. Delivering the best IT services for your business and its partners and customers is good for your company. But it's not a business. Sure, you can create changes, schemes on a per-project or per-use basis. These are helpful to give business unit managers a sense of which their application demands cost. But they should never be medical to make a CIO'S businest basis business.

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#### Continued from page I Social Nets

Trail Blazers had initially projected that 5,000 users would register on the site by the start of the 2007-2008 season in Oc-

rober he said The team point a prowing list of businesses that are em bearing Web 2 0 tools such as blogs, wikis and podcasts to create social networks where customers, partners and others can add content and create vietual communities.

#### **Driving Awareness**

While such social networks first gained popularity among mostly wouthful users who flocked to sites like MySpace and YouTube, businesses are now turning to the technology to boost their brand appeal and sales while gathering feedback to use in the development of new products.

For example, General Motors Corn and The Procter & Camble Co. Isusched cortal networks in the past two works for their Pontiac and Old Spice brands, respectively,

Web 2.0 technology "drives the drumbeat of awareness." Sasse said. "It is a good, oldfashioned grass-roots organization. The more authorate the connection, the more powerfullfiellie "

Sasse noted that the Portland, Ore., National Baskerhall Association franchise turned to the new tools after its earlier strategy of communicating with fans through e-mails faltered when more and more messages were being left un-

The American Society for the Prevention of Cruelty to Animals last month launched a partnership with Souidoo LLC. which provides a platform for building Web 2.0 sites, said lo Sullivan, senior vice president of development and communications at the New York-based organization. The joint effort allows net owners to build

norsonal Web pages on the ASPC A site that can point to blogs, RSS feeds and other destinations, she said.

created 500 sites and that the ASPCA plans to add daily text messages and podcasts later this year. "It's a great elevation of brand "she said Sullivan acknowledged that



the effort has posed organizational challenges, forcing the ASPCA to create a new development team with both technology and branding expertise. The technologists are responsible for undatine content and dentifying emerging Web 2.0 tools while the communications experts focus on using the tools to improve market-

> Travelocity com LP used Web 2.0 tools to create Experience Finder, a new site launched this year to belous err choose travel destinations, said Troy Whitsett vice president of design at the Southlake, Texasbased company.

Tenuclocity plans to add rich media content and links to its subside iary bod leacom. a social network. ing site where travelers post tips on blogs, share photos and offer

Web 2.0 tools, such as social bookmarking and customized instant messaging tools for FS Networks Inc., a Seattlehas been enhancing its user community site with Web

based maker of security tools.

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and activities. Whitsett said

Eric Kunnen, coordinator

College in Michigan, said that

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ness. It is a good.

for the past 15 months, said leff Browning, FS's director of product management The site called DevCentral has more than 12 000 mam here from various IT disciplines, including systems and networking professionals and application developers he said

2.0 social networking tools

DesCentral offers Noss forums, wikis and video syndiested into RSS feeds that generate valuable feedback for FS about its products. Brown-

ine soid MacDonnell Hilsch a technology risk management and "The contomer wants to hear privacy analyst at the Roston from other people like themoffice of consulting firm lefferson Wells International Inc. contioned that many of instructional technologies companies are rushing to at Grand Rapids Community use technologies like blogs

without adequately assessing the risks "Companies are scaling the technologies among the workforce without understanding the risk or the level implications," he said, "What do you really gain if you improve your business processes. [but] in doing that, you actually create

more risk?\*\*

## Companies May Face Lawsuits if **Employees Abuse Web 2.0 Tools**

Legal risks grow with increased use of social networks

BY MEATHER HAVENSTEIN As companies increasingly use blogs, wikis, podcasts and othor Web 2.0 tools to form social networking sites for customers, partners and employees, top executives must keep track of the new medium's myriad

legal risks According to several lawvers who specialize in technology issues, information posted on corporate blogs or wikis could lead to lawsuits

panies with libel, copyright infringement or trademark violations They said that certain notes

posted on such sites could also violate state or federal securi-Dennis Kennedy a lawyer in St. Louis who specializes in

IT issues, said that companies often - and unwisely - treat emerging Web 2.0 technoloeies like "isolated new phenomena" that aren't directly tied to corporate operations. "You need to look at what employees are doing ... in the

context of your communica-

Robert Clothier, an attorney at Fox Rothschild LLP in Philadelphia, noted

that the legal risks associated with blogs are higher for posts written by a company's employees than they are for those sent in by non-employees such as customers or

partners Companies are not likely to be sued for libel for posts on cornorate bloes by outside users unless the company significaptly alters the meaning of the content, said Clothier, who enecializes in First Amenda ment issues.

Discipline employees who Remove maccurate blog



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## Laughing Matters

OR pure entertainment value, the best show in the IT business today is Microsoft. There are lawsuits, like the one in Iowa that was just settled - though not before it turned up a memo from Windows guru Jim Allchin saving he preferred a Macintosh. There are Vista snafus, like the critical security hole in Vista's anti-malware system. There's clumsy astroturfing. like Microsoft's failed try at rewriting Wikipedia the Redmond way.

And last week, there was an "open letter" from Microsoft complaining that IBM is stifling user choice by slowing down standardization of Office 2007's document format, Open XML.

OK, that one's not really so entertaining except to hard-core standards geeks. For them, it's pretty funny stuff,

Put simply, the letter signed by two Microsoft managers accuses IBM of playing politics within the international standards group ISO and of trying to prevent Open XML from quickly becoming an ISO standard. The Microsoft guys are deeply offended that a vendor would try to use a standards process to its own advantage and are shocked - shocked! - that IBM would prevent users from getting the benefits of Open XML. So, what's funny? The obvious thing is that

Opeo XML is already in Office 2007. Neither IBM nor the ISO could prevent any customer who wants the benefits of Open XML from using it. The not-so-obvious howler - except to standards seeks - is Microsoft's deep offense that

a vendor would try to get an advantage from a standards process. Standards weeks know that all vendors do that. Always have, always will -Microsoft and IBM included. That's why it usually takes so long for groups like the ISO to produce a standard. Every vendor gets to pore over the specification and object to anything that

would put it at a disadvantage There is a special fast-track process that can speed up approval for standards that are well understood. widely used and utterly noncontroversial. And, wouldn't you know it. that's the process Microsoft is trying to use to get quick ISO approval for its 6,000-page specification for Open XML, which only exists in a brandnew product from a single vendor.

Chuckling yet? Microsoft picked the fast track for Open XML because otherwise it could take years for it to become ao ISO standard. Other vendors would get to study the spec and suggest

tweaks, and by the time it not the ISO's stamp of approval. Open XML might even be available in products that compete with Microsoft Office And aircady-ISO-approved formats such as OpeoDocument (which IBM likes and Microsoft loathes) would have a years-long head start with

customers that want ISO-standard documents customers like Massachusetts, which Microsoft lobbied unsuccessfully to accept Open XML. Got all that? Trust me, for standards weeks, this For regular IT types, it all sounds meaningless

And it is. For us, here's what matters: Real standards make products from different vendors more interchangeable

That means we can dump Vendor A's sorry excuse for a product and replace it with one from Vendor B or Vendor C or anyone else with something that's a drop-in replacement With real standards, we can keep vendors from locking us into their products with proprietary protocols or formats or connectors. We can bar-

gain down prices by leveraging competition. We can choose our own IT future. But that only happens when there are plenty of competing products that all use the standard in the san way so they all interoperate and can be swapped out - think PCs or TCP/IP. That's when we get real

choice and barraining power. Remember that the next time someone protests mightily about some standards issue. Ask this: Will this mean I'll get more choice, more buying leverage and more control? If it does, it's something you have a stake in. If not - hey, sit back and

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